

WHAT IS CLAIMED IS:

1. A radio communication system for performing communication between a portable cellular phone set on an origination side and a portable cellular phone set on a
5 termination side through a base station apparatus, wherein said portable cellular phone set on the termination side has a function of notifying said portable cellular phone set on the origination side of a termination rejection reason with respect to a termination request from said
10 portable cellular phone set on the origination side in a service with which said portable cellular phone set on the termination side cannot cope, and said portable cellular phone set on the origination side has a function of notifying the termination rejection reason outside.
- 15 2. A system according to claim 1, wherein said portable cellular phone set on the origination side includes a function of switching to a service with which said portable cellular phone set on the termination side can cope on the basis of the termination rejection reason
20 from said portable cellular phone set on the termination side.
- 25 3. A system according to claim 2, wherein the function of switching to a service with which said portable cellular phone set on the termination side can cope is configured to switch to a speech communication

service in response to the input termination rejection reason.

4. A system according to claim 2, wherein the function of switching to a service with which said portable cellular phone set on the termination side can cope is configured to switch to a service with which said portable cellular phone set on the termination side can cope in accordance with the presence/absence of information indicating a service type.

10 5. A system according to claim 4, wherein the function of switching to a service with which said portable cellular phone set on the termination side can cope is configured to switch to a service corresponding to the service type added to information indicating the 15 service type in the termination rejection reason.

6. A system according to claim 4, wherein the function of switching to a service with which said portable cellular phone set on the termination side can cope is configured to switch to a speech communication 20 service if information indicating the service type is not added to the termination rejection reason.

7. A system according to claim 5, wherein the function of switching to a service with which said portable cellular phone set on the termination side can 25 cope is configured to switch to a speech communication

service if information indicating the service type is not added to the termination rejection reason.

8. A system according to claim 2, wherein the function of switching to a service with which said portable cellular phone set on the termination side can cope is configured to switch to a service with which said portable cellular phone set on the termination side can cope in accordance with the presence/absence of setting of switching to the service.

10 9. A system according to claim 8, wherein the function of switching to a service with which said portable cellular phone set on the termination side can cope is configured to switch to a predetermined service when switching to the service is set in advance.

15 10. A system according to claim 8, wherein the function of switching to a service with which said portable cellular phone set on the termination side can cope is configured to switch to a speech communication service when switching to the service is not set in advance.

20 11. A system according to claim 9, wherein the function of switching to a service with which said portable cellular phone set on the termination side can cope is configured to switch to a speech communication service when switching to the service is not set in

advance.

12. A system according to claim 1, wherein said portable cellular phone set on the termination side includes a function of storing data terminated during communication by a termination request which cannot be handled because an image display adapter for providing a service different from speech communication is not connected to at least said portable cellular phone set on the termination side.

10 13. A system according to claim 12, wherein the image display adapter is integrated with said portable cellular phone set.

14. A system according to claim 12, wherein the image display adapter is detachably connected to said portable cellular phone set.

15. A radio communication system for performing communication between a portable cellular phone set on an origination side and a portable cellular phone set on a termination side through a base station apparatus, wherein said portable cellular phone set on the termination side has a function of storing data terminated during communication by a termination request which cannot be handled because an image display adapter for providing a service different from speech communication is not connected to at least said portable cellular phone set on

the termination side.

16. A system according to claim 15, wherein the image display adapter is integrated with said portable cellular phone set.

5 17. A system according to claim 15, wherein the image display adapter is detachably connected to said portable cellular phone set.

10 18. A portable cellular phone set used in a radio communication system for performing communication between an origination side and a termination side through a base station apparatus, wherein the termination side has a function of notifying the origination side of a termination rejection reason with respect to a termination request from the origination side in a service with which 15 a self-portable cellular phone set cannot cope, and the origination side has a function of notifying the termination rejection reason outside.

20 19. A phone set according to claim 18, wherein the origination side includes a function of switching to a service with which the termination side can cope on the basis of the termination rejection reason from the termination side.

25 20. A phone set according to claim 19, wherein the function of switching to a service with which the termination side can cope is configured to switch to a

speech communication service in response to the input termination rejection reason.

21. A phone set according to claim 19, wherein the function of switching to a service with which the 5 termination side can cope is configured to switch to a service with which the termination side can cope in accordance with the presence/absence of information indicating a service type.

22. A phone set according to claim 21, wherein the 10 function of switching to a service with which the termination side can cope is configured to switch to a service corresponding to the service type added to information indicating the service type in the termination rejection reason.

15 23. A phone set according to claim 21, wherein the function of switching to a service with which the termination side can cope is configured to switch to a speech communication service if information indicating the service type is not added to the termination rejection 20 reason.

24. A phone set according to claim 22, wherein the function of switching to a service with which the termination side can cope is configured to switch to a speech communication service if information indicating the 25 service type is not added to the termination rejection

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reason.

25. A phone set according to claim 20, wherein the function of switching to a service with which the termination side can cope is configured to switch to a service with which the termination side can cope in accordance with the presence/absence of setting of switching to the service.

26. A phone set according to claim 25, wherein the function of switching to a service with which the termination side can cope is configured to switch to a predetermined service when switching to the service is set in advance.

27. A phone set according to claim 25, wherein the function of switching to a service with which the termination side can cope is configured to switch to a speech communication service when switching to the service is not set in advance.

28. A phone set according to claim 26, wherein the function of switching to a service with which the termination side can cope is configured to switch to a speech communication service when switching to the service is not set in advance.

29. A phone set according to claim 18, wherein the termination side includes a function of storing data terminated during communication by a termination request

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which cannot be handled because an image display adapter for providing a service different from speech communication is not connected to at least the self-portable cellular phone set.

5 30. A phone set according to claim 29, wherein the image display adapter is integrated with the self-portable cellular phone set.

10 31. A phone set according to claim 29, wherein the image display adapter is detachably connected to the self-portable cellular phone set.

15 32. A portable cellular phone set used in a radio communication system for performing communication between an origination side and a termination side through a base station apparatus, wherein the termination side has a function of storing data terminated during communication by a termination request which cannot be handled because an image display adapter for providing a service different from speech communication is not connected to at least the self-portable cellular phone set.

20 33. A phone set according to claim 32, wherein the image display adapter is integrated with the self-portable cellular phone set.

25 34. A phone set according to claim 32, wherein the image display adapter is detachably connected to the self-portable cellular phone set.

35. A termination response method for a portable cellular phone set used in a radio communication system for performing communication between an origination side and a termination side through a base station apparatus,
5 wherein the termination side has the step of notifying the origination side of a termination rejection reason with respect to a termination request from the origination side in a service with which a self-portable cellular phone set cannot cope, and the origination side has the step of
10 notifying the termination rejection reason outside.

36. A method according to claim 35, wherein the origination side includes the step of switching to a service with which the termination side can cope on the basis of the termination rejection reason from the
15 termination side.

37. A method according to claim 36, wherein the step of switching to a service with which the termination side can cope comprises switching to a speech communication service in response to the input termination rejection
20 reason.

38. A method according to claim 36, wherein the step of switching to a service with which the termination side can cope comprises switching to a service with which the termination side can cope in accordance with the
25 presence/absence of information indicating a service type.

39. A method according to claim 38, wherein the step
of switching to a service with which the termination side
can cope comprises switching to a service corresponding to
the service type added to information indicating the
5 service type in the termination rejection reason.

40. A method according to claim 38, wherein the step
of switching to a service with which the termination side
can cope comprises switching to a speech communication
service if information indicating the service type is not
10 added to the termination rejection reason.

41. A method according to claim 39, wherein the step
of switching to a service with which the termination side
can cope comprises switching to a speech communication
service if information indicating the service type is not
15 added to the termination rejection reason.

42. A method according to claim 36, wherein the step
of switching to a service with which the termination side
can cope comprises switching to a service with which the
termination side can cope in accordance with the
20 presence/absence of setting of switching to the service.

43. A method according to claim 42, wherein the step
of switching to a service with which the termination side
can cope comprises switching to a predetermined service
when switching to the service is set in advance.

25 44. A method according to claim 42, wherein the step

of switching to a service with which the termination side can cope comprises switching to a speech communication service when switching to the service is not set in advance.

5 45. A method according to claim 43, wherein the step of switching to a service with which the termination side can cope comprises switching to a speech communication service when switching to the service is not set in advance.

10 46. A method according to claim 35, wherein the termination side includes the step of storing data terminated during communication by a termination request which cannot be handled because an image display adapter for providing a service different from speech
15 communication is not connected to at least the termination side.

47. A method according to claim 46, wherein the image display adapter is integrated with the portable cellular phone set.

20 48. A method according to claim 46, wherein the image display adapter is detachably connected to the portable cellular phone set.

25 49. A termination response method for a portable cellular phone set used in a radio communication system for performing communication between an origination side

and a termination side through a base station apparatus,
wherein the termination side includes the step of storing
data terminated during communication by a termination
request which cannot be handled because an image display
5 adapter for providing a service different from speech
communication is not connected to at least the termination
side.

50. A method according to claim 49, wherein the image
display adapter is integrated with the portable cellular
10 phone set as a self-portable cellular phone set.

51. A method according to claim 49, wherein the image
display adapter is detachably connected to the portable
cellular phone set as a self-portable cellular phone set.